	Application No.	Applicant(s)
Notice of Allowability	10/632,118	 WHEELER ET AL.
	Examiner	Art Unit
	Daharah Crayah Bh D	1622
	Deborah Crouch, Ph.D.	1632
The MAILING DATE of this communication appears on the cover sheet with the correspondence address All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.		
1. This communication is responsive to the amendment filed June 5, 2007.		
2. The allowed claim(s) is/are 1,3-19 and 21.		
 3. Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some* c) None of the: 1. Certified copies of the priority documents have been received. 		
2. Certified copies of the priority documents have been received in Application No		
3. Copies of the certified copies of the priority documents have been received in this national stage application from the		
International Bureau (PCT Rule 17.2(a)).		
* Certified copies not received:		
Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application. THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		
4. A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.		
5. CORRECTED DRAWINGS (as "replacement sheets") must be submitted.		
(a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached		
1) hereto or 2) to Paper No./Mail Date		
(b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date		
Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).		
 DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL. 		
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Attachment(s) 1. Notice of References Cited (PTO-892)	5. Notice of Informal P	atent Application
2. Notice of Draftperson's Patent Drawing Review (PTO-948)	6. ☑ Interview Summary	
	Paper No./Mail Dat	te <u>7/26/07</u> .
3. Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date	7. 🛛 Examiner's Amendr	nent/Comment
4. Examiner's Comment Regarding Requirement for Deposit	8. 🗌 Examiner's Stateme	ent of Reasons for Allowance
of Biological Material	9. 🔲 Other	
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An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Ms. Donna Ferber on July 26, 2007.

- 1. Please rewrite claims 1 and 19 as below:
 - 1. A method for producing a porcine mammal with a nuclear genome of interest, said method comprising the steps of:
 - (a) providing a porcine embryonic stem cell comprising a nucleus having a genome of interest;
 - (b) providing a porcine oocyte that is a matured and activated oocyte, culturing a porcine oocyte so that it is a matured and activated oocyte, or producing a porcine zygote in vivo or in vitro;
 - (c) enucleating the matured and activated oocyte or enucleating the zygote to step (b) to produce an enucleated recipient cell;
 - (d) transferring the nucleus of the embryonic stem cell of step (a) to the enucleated recipient cell of step (c) to produce a nuclear transfer embryo;
 - (e) culturing the nuclear transfer embryo of step (d) to produce an embryo of a 4-cell, 8-cell, 16-cell, compact morula or blastocyst stage of development; and
 - (f) implanting the nuclear transfer embryo of step (d or e) into a surrogate porcine mother mammal,

whereby a porcine mammal having a nuclear genome of interest is produced.

19. The method of claim 1, wherein the oocyte is matured in vivo or in vitro and activated *in vitro* by cold shock, sham enucleation, electroactivation or electro activation in combination with culture in the presence of cycloheximide.

Examiner's Comment:

The title has been changed to -Nuclear Transfer With Porcine Embryonic Stem Cells--.

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to Deborah Crouch, Ph.D. whose telephone number is 571-272-0727. The examiner can normally be reached on M-Fri, 6:00 AM to 3:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Peter Paras can be reached on 571-272-4517. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Deborah Crouch, Ph.D. Primary Examiner Art Unit 1632

July 27, 2007